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12. Signature of Recipient and Date

U.S. DEPARTMENT OF ENERGY FEDERAL ASSISTANCE PROGRAM/PROJECT STATUS REPORT

OMB Control No. 1910-0400

OMB Burden Disclosure Statement

Public reporting burden for this collection of information is estimated to average 47.5 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Office of Information Resources Management, AD-241.2 - GTN, Paperwork Reduction Project (1910-0400), U.S. Department of Energy, 1000 Independence Avenue, S.W., Washington, DC 20585; and to the Office of Management and Budget (OMB), Paperwork Reduction Project (1910-0400),

Washington, DC 20503.	voludo, o.vv., vvadriinigiori, 20 20000, and to the office of management and badget (or	112), 1 aportion (10 au 100)
Program/Project Identification No.	2. Program/Project Title:	Reporting Period
DE-FC26-98FT40321	JV Task 39 – Determination of the Speciated Mercury Inventory at Four	4/1/02 through 6/30/02
DE 1 020 001 1 1002 1	Coal-Fired Boilers Using Continuous Mercury Monitors	17 17 02 till odgil 07 00, 02
4. Name and Address	,	5. Program/Project Start Date
Energy & Environmental Research Center		4/15/98
University of North Dakota		
PO Box 9018, Grand Forks, ND 58202-9018		Completion Date
		3/31/03
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7. Approach Changes		
At the request of Edison Mission Energy (E	ME) the parent corporation of Midwest Generation (MG) the original schedu	le was delayed. They have also
At the request of Edison Mission Energy (EME), the parent corporation of Midwest Generation (MG), the original schedule was delayed. They have also requested a proposal for additional analyses, which necessitated an amendment to the original contract and a change in the projected submission date of the		
draft final report to allow incorporation of the		
· ·		
□ None		
8. Performance Variances, Accomplishmer	nts. or Problems	
	, 5. 1 155.55	
Sampling has been concluded at all three plants (four boilers), where both the Ontario Hydro (OH) mercury speciation method and continuous mercury monitors		
(CMMs) were used to determine total and speciated mercury. Preliminary analyses confirm that mercury speciation is more attributable to coal type than the type		
of pollution control device used. The unit burning an eastern bituminous blended coal had fairly high mercury and chloride contents (0.44 μg/g Hg dry, 1240 μg/g		
Cl dry), and the electrostatic precipitator (ESP) showed little or insignificant removal of mercury. Of the mercury exiting the ESP, most of it was oxidized mercury. However, the flue gas desulfurization (FGD) unit used did provide a significant mercury capture—over 95%. The unit burning a washed eastern bituminous coal		
had 0.16 µg/g Hg (dry) and 1320 µg/g Cl (dry). The mercury exiting the ESP was primarily oxidized, and the ESP removed ~20% of the mercury.		
That of 10 pg/g rig (ary) and 1020 pg/g of (a	Try). The meloury exiting the Eor was primarily exitation, and the Eor Temove	2070 of the merodry.
On the other two units sampled, the Powder River Basin (PRB) coals had lower mercury (0.09 and 0.07 µg/g [dry], respectively) and chlorine (35 and 43 µg/g		
[dry], respectively) levels. Emissions at these two plants were mostly elemental mercury. One of the coals burned produced a reactive ash, the other did not. At		
the first plant, the mercury was primarily particulate-bound, and 78% was removed across the ESP. The other unit that burned a PRB had a hot-side ESP, but		
had minimal mercury removal.		
Because coal characteristics seemed to be	such a determinant of mercury speciation. FMF decided that more analyses	would be needed to accurately
Because coal characteristics seemed to be such a determinant of mercury speciation, EME decided that more analyses would be needed to accurately determine the mercury inventory for MG power plants. Therefore, an add-on proposal was submitted to analyze coal and ash samples for the remaining boilers		
	will be incorporated into the draft final for this project.	3
□ None		
9. Open Items		
o. Open items		
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None		
40. Chatria Assessment and Farasset		
10. Status Assessment and Forecast		
An add-on proposal has been sent to conduct additional analyses for this project. This will extend the end date of the project. The additional analyses will be		
incorporated into the draft final in preparation.		
□ No Deviation from Plan is Expected		
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11. Description of Attachments		
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■ None		
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13. Signature of U.S. Department of Energy (DOE) Reviewing Representative and Date